GA80-B7061 Quick Installation Guide

Document # D2263-100/ Revision 1.0

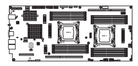
1 General Information

Read Me First

1. The User's Manual is available for download from our Web site at http://www.tyan.com. Make sure to read all precautions and instructions before you start installing the server system.
2. Refer all servicing to qualified personnel to avoid the risk of damage to the server system.
3. Exercise normal ESD (Electrostatic Discharge) procedures during system integration. TYAN/MiTAC recommends wearing gloves and an anti-static wrist strap to avoid possible damage to the equipment.
4. Current processor socket design places the pins on the motherboard instead of the processor itself. Exercise caution when installing the processors as the manufacturer's warranty does not cover damage inflicted upon the motherboard, including damage to the CPU sockets.

Box Content

1U chassis, (4) hot swap HDD bays


TYAN® S7061 system board (pre-installed)

(1) 1,200W (80+ Platinum) power supply (pre-installed)

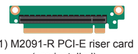
(7) 40x40x56mm system FANs (pre-installed)

(1) M1618G80-D-PDB (pre-installed)

(1) M1201-L16-1F riser card (pre-installed)

(1) M1202-L16-1F riser card (pre-installed)

(1) M7018-BP-SG HDD backplane (pre-installed)


(1) M2091-R PCI-E riser card (pre-installed)

(1) M1706G62-FPB front panel board (pre-installed)

Accessories

(2) CPU heatsinks

(2) Sliding rails & (1) screw pack

(1) Quick Installation Guide

(1) Driver's and Utilities CD

(1) Air duct

(2) Mounting ear & (1) screw pack

(2) Intel GPU bracket

(1) AC Power cord (US)

(1) AC power cord (EU)

(3) Screw pack

Required Hardware Components

Minimum Hardware Requirements

To avoid integration difficulties and possible board damage, your system must meet the following minimum requirements:

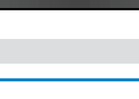
- Processor: Intel® Xeon® processor E5-2600 Series with 5MB cache support.
- Memory Type: Minimum of one 1GB, 240-pin DDR3 800/1066/1333/1600-MT/s DIMMs.
- Hard disk drives: SATA/SAS
- Rack mount kit (industry 19" rack-mountable)

Note: Please find the updated hardware requirements of the system in the the User's Manual on our website at www.tyan.com.

Tools prepared

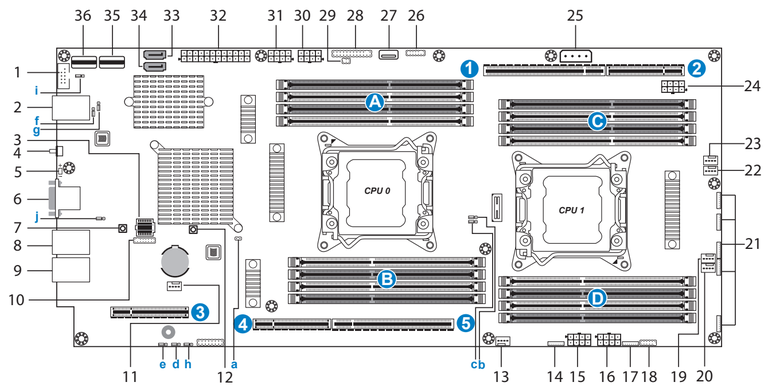
Phillips screwdriver

Flat-head screwdriver


Anti-static wrist strap

2 Motherboard Placement

Motherboard Placement



CONNECTORS

1. COM2 header (J3)
2. USB2.0 ports and LAN port #3(LAN3)
3. BIOS
4. ID_LED button
5. ID_LED
6. VGA port
7. Power button
8. LAN port #1 (LAN1)
9. LAN port #2 (LAN2)
10. Port 80 header (J2004)
11. CPU0 fan power connector
12. Clear CMOS button
13. Fan connector (SYS_FAN_4)
14. 8-pin fan connector (J2011)
15. 8-pin power connector (PW3)
16. 8-pin power connector (PW2)
17. 8-pin fan connector (J2010)
18. USB front panel connector(USB1)
19. Fan connector (SYS_FAN_3)
20. CPU1 fan power connector
21. 8-pin fan connector (from down to up J2014,J2013,J2012,J2009,J2008)
22. Fan connector (SYS_FAN_2)
23. Fan connector (SYS_FAN_1)
24. 8-pin power connector(PW6)
25. 4-pin power connector(PW9)
26. PDB to MB connector(J2006)
27. Type-A USB connector(A_USB1)
28. Front panel connector(FPIO1)
29. SAS SMbus header(J205)
30. 8-pin power connector(PW4)
31. 8-pin power connector(PW5)
32. 24-pin power connector(PW8)
33. SATA2
34. SATA1
35. 4 in1 Mini SAS connector
36. 4 in1 Mini SAS connector

SLOTS

A	CPU0 DIMM SLOT [Channel A/B]
B	CPU0 DIMM SLOT [Channel C/D]
C	CPU1 DIMM SLOT [Channel A/B]
D	CPU1 DIMM SLOT [Channel C/D]
1	PCIE Gen3 slot (x16)
2	PCIE Gen3 slot (x8)
3	PCIE Gen3 slot (x8)
4	PCIE Gen3 slot (x8)
5	PCIE Gen3 slot (x16)

Note: There is a risk when setting the jumper by yourself.

HEADER

Name	Description
a	Chassis intrusion header(2PHD_1)

JUMPER

Name	Description
b/c	CPU XDP bypass jumper (3PHD_2/3PHD_3)
d	ME recovery mode jumper (3PHD_4)
e	BIOS recovery mode jumper (3PHD_5)
f/g	COM port select jumper (3PHD_6/3PHD_7)
h	Security override mode jumper (3PHD_8)
i	SAS2308 reset jumper (3PHD_10)
j	BMC reset jumper (3PHD_11)

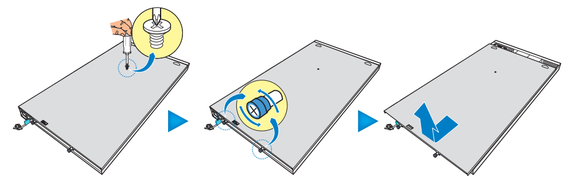
3 System Installation

Open the Chassis

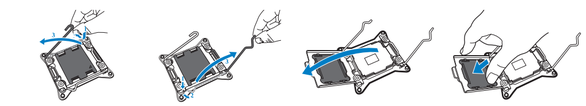
Preparing the Chassis

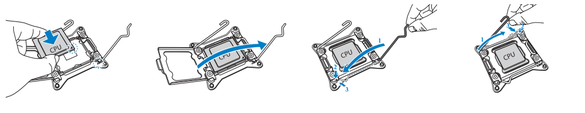
Read normal ESD (Electrostatic Discharge) procedures.

Place your TYAN® Server Chassis on a flat anti-static surface to perform the following integration procedures. Read ESD procedures before reaching inside to install components.

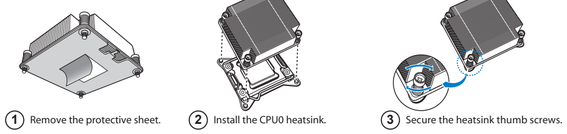

1 Remove the screw on the top cover. 2 Loosen the 2 thumb screws on the rear side. 3 Slide to remove the top cover.

Installing the processor

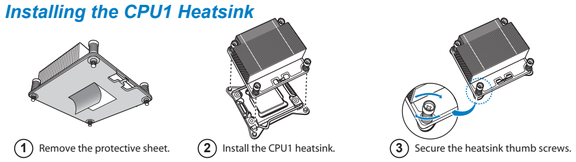

1 Open the socket lever. 2 Open the other socket lever. 3 Open the CPU socket cover. 4 Remove the CPU protective cap.


5 Install the processor and make sure the golden arrow is located in the right direction. 6 Close the CPU socket cover. 7 Close the socket lever. 8 Close the other socket lever.

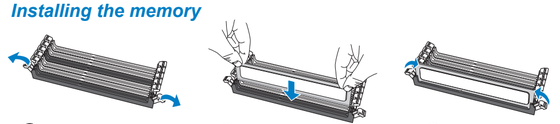
Installing the CPU0 Heatsink


1 Remove the protective sheet. 2 Install the CPU0 heatsink. 3 Secure the heatsink thumb screws.

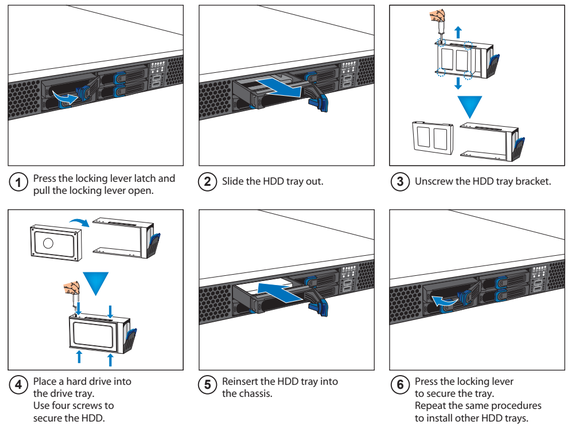
Installing the CPU1 Heatsink


1 Remove the protective sheet. 2 Install the CPU1 heatsink. 3 Secure the heatsink thumb screws.

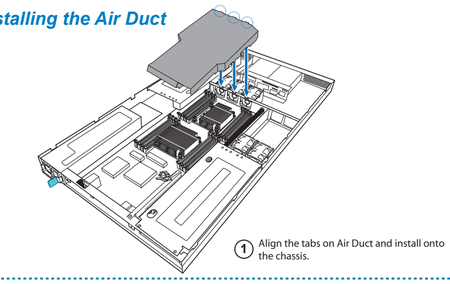
Installing the memory


1 Unlock the clips. 2 Insert the memory module. 3 Lock the clips.

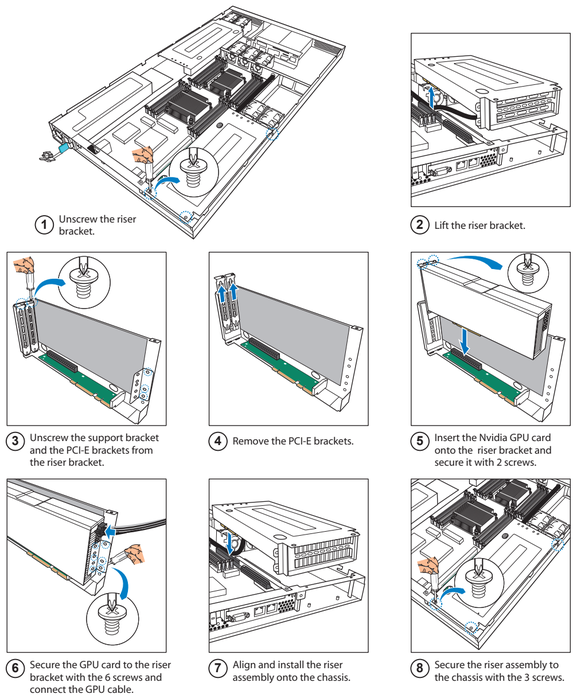
Installing the Hard Disks


1 Press the locking lever latch and pull the locking lever open. 2 Slide the HDD tray out. 3 Unscrew the HDD tray bracket. 4 Place a hard drive into the drive tray. Use four screws to secure the HDD. 5 Reinsert the HDD tray into the chassis. 6 Press the locking lever to secure the tray. Repeat the same procedures to install other HDD trays.

Installing the Air Duct


1 Align the tabs on Air Duct and install onto the chassis.

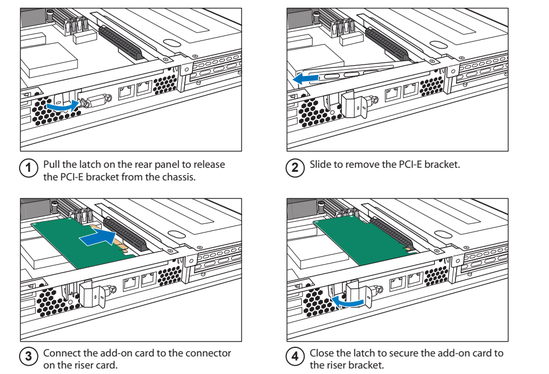
Installing the Nvidia K10 GPU card (Optional)


1 Unscrew the riser bracket. 2 Lift the riser bracket. 3 Unscrew the support bracket and the PCI-E brackets from the riser bracket. 4 Remove the PCI-E brackets. 5 Insert the Nvidia GPU card onto the riser bracket and secure it with 2 screws. 6 Secure the GPU card to the riser bracket with the 6 screws and connect the GPU cable. 7 Align and install the riser assembly onto the chassis. 8 Secure the riser assembly to the chassis with the 3 screws.

Note:

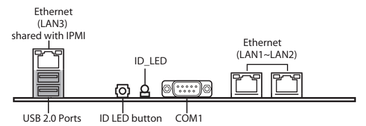
1. The Intel GPU brackets will only be included in B7061G80W4H-X SKU.
2. There are two riser brackets inside the chassis. For installing other GPU cards onto the riser bracket, please refer to the User's Manual on our website at http://www.tyan.com.

Installing the Add-On card (Optional)


1 Pull the latch on the rear panel to release the PCI-E bracket from the chassis. 2 Slide to remove the PCI-E bracket. 3 Connect the add-on card to the connector on the riser card. 4 Close the latch to secure the add-on card to the riser bracket.

4 I/O ports

Locate the external I/O port



5 Caution

CPU Cover for DOA/RMA

DOA/RMA Reminder

Note: Please save and replace the CPU protection cap when returning the server board for the service.